BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains at Kalappa Layout, Subbanna Bedi, Venugopal swamy Temple and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.

Estimated Cost : Rs. 70.00 Lakhs

Job Code: 010-20-000033

Head of Account : P-3601

Name of Agency: Sri N.M Shivakumar, # 07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 10.

Work order No: BBMP/EE/BTP/WO/233/2019-20 Dated: 17-03-2020.

	Date of Recording:	3/08/2020.						
Sl. No	**Description**	**No.**	**L**	**B**	**D**	**Qty**	**Rate / Unit**	**Amount**
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 & 02 is =					**1009.26**	255.95	**258320.00**
2	Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 03 is =					**117.00**	5675.82	**664071.00**
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)							
	Bottom Concrete							
	Hanuman layout 2nd Main Road N/S	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	23.00	0.90	0.15	3.11		
	Hanuman layout 2nd Main Road S/S	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	23.00	0.90	0.15	3.11		
	Kalparuksha Layout	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		

Sweetha.N.K
Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
Bangalore - 97

Sl. No	Description	No.	L	B	D	Qty	Rate / Unit	Amount
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	5.70	0.90	0.15	0.77		
		1	15.00	0.90	0.15	2.03		
	Muneshwara layout 3rd Cross E/S	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	10.00	0.90	0.15	1.35		
	Muneshwara layout 3rd Cross W/S	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	10.00	0.90	0.15	1.35		
	Muneshwara layout 2nd Main	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	15.20	0.90	0.15	2.05		
	Side Wall							
	Hanuman layout 2nd Main Road N/S	2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	23.00	0.15	0.60	4.14		
	Hanuman layout 2nd Main Road S/S	2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	23.00	0.15	0.60	4.14		
	Kalparuksha Layout	2	30.00	0.15	0.50	4.50		
		2	30.00	0.15	0.55	4.95		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	5.70	0.15	0.60	1.03		
		2	15.00	0.15	0.60	2.70		
	Muneshwara layout 3rd Cross E/S	2	30.00	0.15	0.50	4.50		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	10.00	0.15	0.60	1.80		
	Muneshwara layout 3rd Cross W/S	2	30.00	0.15	0.50	4.50		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	10.00	0.15	0.60	1.80		
	Muneshwara layout 2nd Main	2	30.00	0.15	0.55	4.95		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	15.20	0.15	0.60	2.74		

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

	Description	No.	L	B	D	Qty	Rate / Unit	Amount
			Total Qty =			245.85		
			Qty Limited to =			245.70	6056.29	1488030.00
4	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500**							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 04 is =					**14.74**	78947.55	**1163687.00**
5	Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 05 is =					**2280.00**	398.26	**908033.00**
6	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete							
	For Covering Slab							
	Hanuman layout 2nd Main Road N/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	23.00		0.90	20.70		
	Hanuman layout 2nd Main Road S/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	23.00		0.90	20.70		
	Kalparuksha Layout	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	5.70		0.90	5.13		
		1	15.00		0.90	13.50		
	Muneshwara layout 3rd Cross E/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	10.00		0.90	9.00		
	Muneshwara layout 3rd Cross W/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	10.00		0.90	9.00		
	Muneshwara layout 2nd Main	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	15.20		0.90	13.68		

Assistant Executive Engineer
Vidyaranyapura Sub Divisi
BBMP, Bangalore - 97

Sumitha.NL
Assistant Engineer

Assistant Executive Engineer

Sl. No	Description	No.	L	B	D	Qty	Rate / Unit	Amount
	Muneshwara Layout 1st Main Road	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	26.90		0.90	24.21		
	Muneshwara Layout 1st Cross	2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
	Kalappa Layout 2nd Cross	2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
	Kalappa Layout 3rd Cross	2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
	Kalappa Layout 4th Cross	2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
	Muneshwara Layout 2nd Main Road	1	30.00		0.90	27.00		
		1	17.40		0.90	15.66		
		Total Qty =				**1562.58**		
		Qty Limited to =				**1560.60**	778.73	**1215286.00**
7	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded)							
		2834	3.00			8502.00		
						8490.00	64.52	**547775.00**
8	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
	Covering Slab Ramp							
	Hanuman layout 2nd Main Road N/S	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	23.00	0.30	0.10	0.69		
	Hanuman layout 2nd Main Road S/S	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	23.00	0.30	0.10	0.69		
	Kalparuksha Layout	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	5.70	0.30	0.10	0.17		

Assistant Executive Engineer
Vijayanagara Sub Division
BBMP, Bangalore - 97

Assistant Engineer

Assistant Executive Engineer

Description	No.	L	B	D	Qty	Rate / Unit	Amount
	1	15.00	0.30	0.10	0.45		
Muneshwara layout 3rd Cross E/S	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	10.00	0.30	0.10	0.30		
Muneshwara layout 3rd Cross W/S	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	10.00	0.30	0.10	0.30		
Muneshwara layout 2nd Main	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	15.20	0.30	0.10	0.46		
Muneshwara Layout 1st Main Road	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	30.00	0.30	0.10	0.90		
	1	26.90	0.30	0.10	0.81		
Muneshwara Layout 1st Cross	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
Kalappa Layout 2nd Cross	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
Kalappa Layout 3rd Cross	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
Kalappa Layout 4th Cross	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
	2	30.00	0.30	0.10	1.80		
Muneshwara Layout 2nd Main Road	1	30.00	0.30	0.10	0.90		
	1	17.40	0.30	0.10	0.52		
	Total Qty =				**52.09**		
	Qty Limited to =				**52.02**	6031.81	**313775.00**
Sub Total							**6558977.00**
GST 12%							**787077.00**
						Total	**7346054.00**

Rupees Seventy Three Lakh(s) Forty Six Thousand Fifty Four Only

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97